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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/718,776	11/21/2003	Klaus-Jurgen Feilkas	P2001,0382	1527
	24131 7590 05/20/2004 LERNER AND GREENBERG, PA P O BOX 2480		··	EXAMINER CHANG, JOSEPH	
•			m.		
		), FL 33022-2480	*	ART UNIT	PAPER NUMBER
			*	2817	
				DATE MAILED: 05/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		lm				
	Application No.	Applicant(s)				
Office Action Summary	10/718,776	FEILKAS ET AL.				
omec Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication	Joseph Chang	2817				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondenc address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI	mely filed  ys will be considered timely.  the mailing date of this communication.				
Status	·	•				
1) Responsive to communication(s) filed on 21 No.	ovember 2003					
	action is non-final.	*				
<u> </u>						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,7 and 8</u> is/are rejected.	•					
7)⊠ Claim(s) <u>5 and 6</u> is/are objected to.	+ 10.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers	•	V-				
9)⊠ The specification is objected to by the Examiner						
•	The drawing(s) filed on <u>21 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119		•				
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).				
1. Certified copies of the priority documents	have been received.	. *				
<ol><li>Certified copies of the priority documents</li></ol>	have been received in Applicati	on No				
3. ☐ Copies of the certified copies of the priori		ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.				
•	÷ "					
Attachment(s)	, , , , , , , , , , , , , , , , , , ,					
) 🔀 Notice of References Cited (PTO-892)	A) Intension Come	(DTO 442)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da	ate				
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/21/03.		atent Application (PTO-152)				
Patent and Trademark Office	5) 🗀 Oulet					

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#### **DETAILED ACTION**

## Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: OSCILLATOR CIRCUIT WITH SWICHABLE COMPENSATED AMPLIFIERS.

## Claim Objections

Claims 1 and 3 are objected to because of the following informalities:

Regarding Claim 1, it appeared that the phrase "switches, in each case one of said switches being coupled with in each case one of said attenuation compensation amplifiers" would be more clear if it read as "switches, each being coupled with one of said attenuation compensation amplifiers" since the phase "in each case" is confusing as to what it is referring. Note: for examination purposes, the above-mentioned phrase is interpreted as "switches, each being coupled with one of said attenuation compensation amplifiers".

Regarding Claim 3, the recitation "amplitude value detection" lacks an antecedent basis, and therefor, it should be changed to -- amplitude value detector --. Appropriate correction is required.

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## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 7 and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Rogers (US 2003/0025566 A1).

Regarding Claim 1, Rogers discloses in figure 3 a compensated oscillator circuit, comprising:

a supply potential connection (Vcc);

a resonant circuit (LC tank: L, Vvar1, Cvar2);

at least two attenuation compensation amplifiers (Q1, Q2) coupled switchably (through switches Qt1-Qt6) to the resonant circuit to compensate for attenuation;

switches (Qt1-Qt6, Para [0036]), each being coupled with one of said attenuation compensation amplifiers (Q1, Q2) for forming switchable current paths (Vcc, D, N1 (or N2), Q1 (or Q2), Rt1-6, Qt1-6) between said resonant circuit (L, Vvar1, Cvar2) and said supply potential connection (Vcc);

and currents sources (VCO tail resistors Rt1-Rt6) connected to and feeding said attenuation compensation amplifiers (Q1, Q2), one of said current sources (Rt16) disposed in each of said switchable current paths (Vcc, D, N1 Q1, Rt16, Qt16).

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Regarding Claim 2, Rogers discloses a drive circuit (36), and the switches (Qt1-Qt6) each has a control connection (base of transistor Qt1-Qt6 and B1-B6 of 36) connected to the drive circuit (36).

Regarding Claim 3, Rogers discloses a amplitude value detector (32) for forming a control loop (Oscillator output (N1,N2), 32, 36, to Qt1-Qt6), the amplitude value detector having an input connected to the resonant circuit (N1, N2) and an output connected to the drive circuit (36).

Regarding Claim 4, Rogers discloses the switchable current paths with the attenuation compensation amplifiers are connected in parallel with one another to the resonant circuit (Q1 and Q2 are connected in parallel to the LC tank circuit).

Regarding Claim 7, Rogers discloses the switches (Qt1 - Qt6) are digitally (control bit B1 - B6) driven transistor switches.

Regarding Claim 8, Rogers discloses the resonant circuit has a control input (Vcont) for controlling a resonant frequency using a control voltage (page 3, Para. [0029], lines 5-7).

It is noted that Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

## Allowable Subject Matter

Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the best prior art of record, Rogers, taken alone or in combination of other references, does not teach or fairly suggest attenuation compensation amplifiers each have two cross-coupled transistors.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fujii et al. discloses a piezoelectric oscillator having a plurality of delay times.

Gilbert discloses an LC oscillator with an automatic biasing scheme.

Tsukagoshi et al. discloses in figure 5 a piezoelectric oscillator having a current limiting with switches.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Chang Patent Examiner

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